Supporting Information

Direct Electrochemistry of Endonuclease III in the Presence and Absence of DNA

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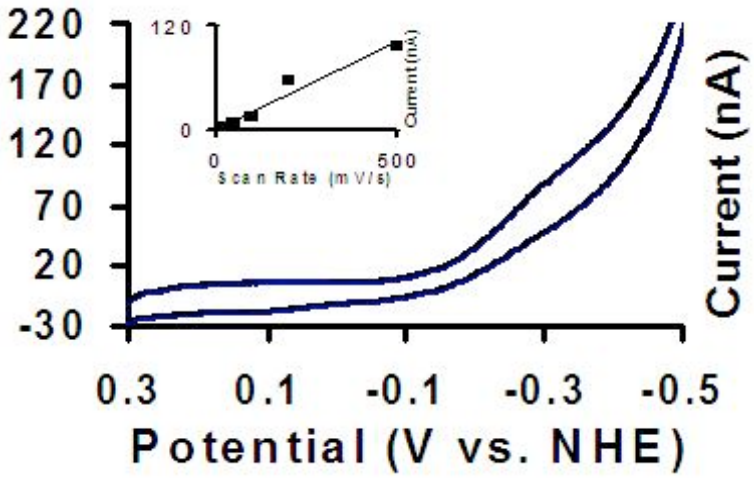


Figure S1. CV of 50 μM Endo III on bare HOPG at a 20 mV/s scan rate showing the 2+/1+ couple. A plot of peak current as a function of scan rate is inset.

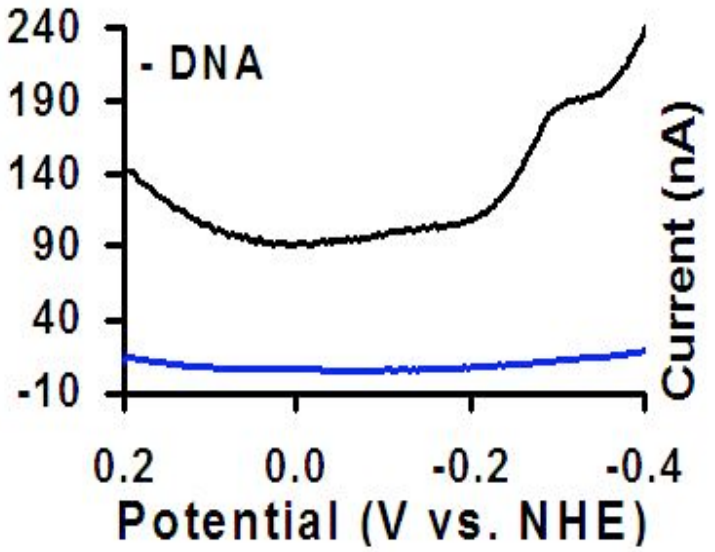


Figure S2. SWV of 50 µM Endo III on bare HOPG at 15 Hz showing the 2+/1+ couple. An electrode backfilled with octane showing the loss of the signal is in blue. Electrodes have been normalized by their geometric surface areas for clarity.

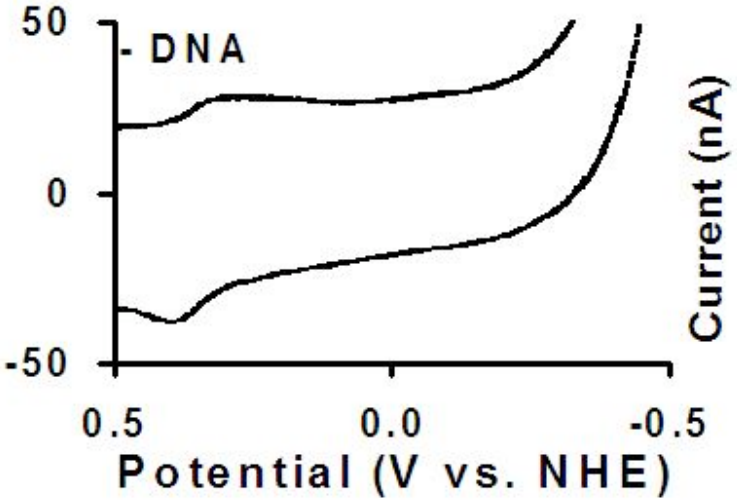
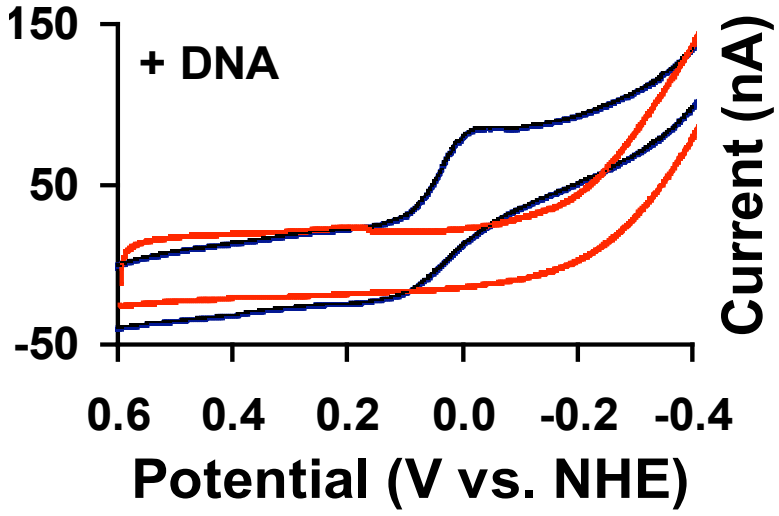


Figure S3. CV of 200 µM Endo III on bare HOPG at a 50 mV/s scan rate showing the 3+/2+ couple. Note that both anodic and cathodic peaks are observed here.

A.



B.

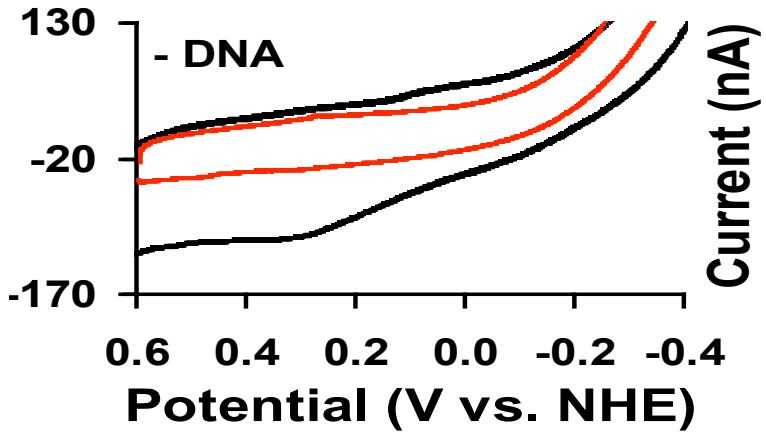


Figure S4. CV's of 50 μM Endo III on DNA modified HOPG (A) and bare HOPG (B) at a 50 mV/s scan rate. Blank electrodes run without protein in storage buffer are shown in red. The electrodes shown in black are identical to the ones in the text. Note the absence of a signal on the blank electrodes.